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Memory gate for error sampler.

A memory gate for an error sampler comprises a memory capacitor having one terminal connected to a reference potential level. A current steering network has an input terminal at which it receives signal current and also has an output terminal connected to the other terminal of the memory capacitor. The current steering network either directs current received at its input terminal to its output terminal or diverts the current from the output terminal, depending on the relationship between the potential at a control terminal of the current steering network and the potential at the output terminal of the current steering network. The potential at the control terminal is biased to follow the potential at the output terminal of the current steering network, and therefore the amount by which the potential at the control terminal must be changed in order to change the state of the current steering network is independent of the voltage on the memory capacitor. A switch circuit is responsive to a gate control signal to place the current steering network in one or other of its states.

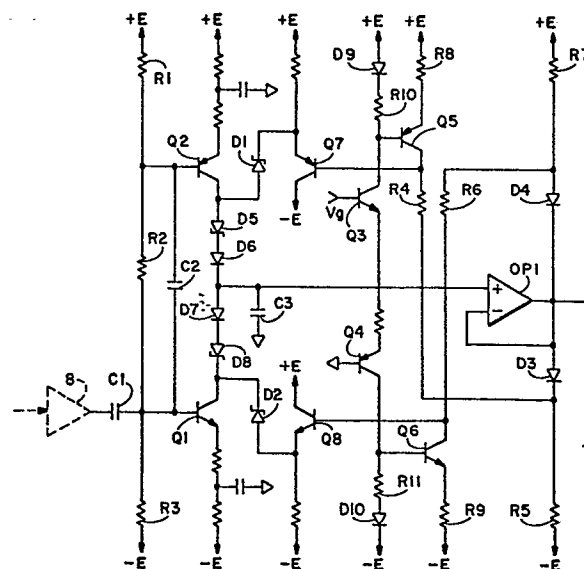


FIG. 2



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	FR-A-1 561 347 (ELECTRO-MECHANICAL RESEARCH) * Figure 2; page 3; page 4, left-hand column *	1-4	G 01 R 13/34 G 11 C 27/00
A	US-A-3 474 259 (SINGER)		
A	US-A-4 142 117 (PRECISION MONOLITHICS)		
A	US-A-3 480 795 (IBM)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 01 R G 11 C
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	12-05-1988	HOORNAERT W.	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	